CLAIMS

1. A data recording device that records data into a semiconductor memory pack device that includes a plurality of flash memories performing recording operations in parallel, the data recording device comprising:

a file management portion for managing data that is to be recorded into the semiconductor memory pack device as a file;

wherein the file management portion sets a data recording unit of data that is to be supplied to the semiconductor memory pack device to a common multiple of a size obtained by adding up the sizes of erase blocks of the plurality of flash memories and a data management size of the file management portion.

2. The data recording device according to claim 1,

wherein a data recording unit is an integral multiple of the size obtained by adding up the sizes of the erase blocks of the plurality of flash memories; and

wherein a data management unit of the file management portion has the same size as the data recording unit.

3. The data recording device according to claim 1 or 2,

wherein the file management portion lets each data recording unit include only data of the same file.

4. The data recording device according to claim 1 or 2,

wherein the file management portion records data only when the semiconductor memory pack device includes free space that is equivalent to the data recording unit.

5. The data recording device according to claim 1 or 2,

wherein when data of different files is recorded in the data recording unit, the file management portion sorts recording data in such a manner that the data recording unit includes only data of the same file.

6. The data recording device according to claim 1 or 2,

wherein the semiconductor memory pack device is provided with a region into which file management information of the file management portion is recorded; and

wherein when the file management portion records at least two files of an audio data file and a video data file simultaneously and in parallel into the semiconductor memory pack device, the file management information that is recorded in the semiconductor memory pack device is updated at a time when an amount of audio data accumulated as data that is to be supplied to the semiconductor memory pack device becomes an integral multiple of the data recording unit.

7. The data recording device according to claim 1 or 2,

wherein when the file management portion records an MPEG stream into a file, the file management information of the file management portion is updated at a time when an amount of recorded data becomes an integral multiple of 1 GOP.

8. The data recording device according to claim 1 or 2,

wherein the flash memories are mounted on the semiconductor memory pack device as semiconductor memory cards.